MIKHAYLOV, V.A.; KHARCHENKO, S.K.; NAZIN, A.G.

Study of the binary systems: wa' -tri -n-butylphosphate and water - di - n -butylphosphoric acid. Izv. Sib. otd. AN SSSR no.7:50-56 *62 (MIRA 17:8)

1. Institut neorganicheskoy khimii Sibirakogo otdeleniya AN SSSR. Novosibira.

MIKHAYLOV, V.A.; NAZIN, A.G.

Study of simple extraction systems. Report No.1: The system water - tributylphoschate - potassium iodide. Izv. Sib. ctd. 4N SSSR no.9:54-64 *62. (MIRA 17:8)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR, Novosibirak.

DRAKIN, S.I----MIKHAYLOV, V.A.

Calculation of the thermodynamic characteristics of the hydration of ions incapable of prolonged existence in an aqueous solution.

Zhur.fiz.khim. 36 no.8:1698-1704 Ag '62. (MIRA 15:8)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva i Institut meorganicheskoy khimii Sibirskogo otdeleniya AN SSSR. (Ioms) (Hydration) (Chemistry, Physical and theoretical)

MIKHAYLOV, V.A.; KIRGINTSEV, A.N.

Finding of break points on a curve. Zhur. fiz. khim. 36 no.9: 2085-2087 S '62. (MIRA 17:6)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR.

MIKHAYLOV, V.A.; KHARCHENKO, S.K.

Study of the ternary system water - tri-n-butyl phosphate - di-n-butylphosphoric acid. Izv. SO AN SSSR no.3 Ser. khim. nauk no.1:70-82 '63. (MIRA 16:8)

1. Institut neorganicheskoy khimii Sibirskogo Otdeleniya AN SSSR, Novosibirsk.

(Butyl phosphates) (Phosphoric acid) (Phase rule and equilibrium)

MIKHAYLOV, V.A.; KHARCHENKO, S.K.; NAZIN, A.G.

Extraction equilibria and the theory of nonelectrolyte solutions. Trudy Kom.anal.khim. 14:76-86 *63. (MIRA 16:11)

L 42979-65 EVII (m)/EVIP(j)/T Pc-4 RM ACCESSION NR: AP5009428

8/0289/64/000/003/0095/0104

13

AUTHOR: Torgov, V.G.; Nikolayev, A.V.; Mikhaylov, V.A.; Korolenok, L.N.; Stadnikova, L.G.; Kotlyarevskiy, I.L.

TITLE: Study of the extraction of uranyl nitrate by some derivatives of pyridine-N-oxide SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya khimicheskikh nauk, no. 3.

SOURCE: AN SSSR. Sibirskoye otdeleniye, Izvestiya, Seriya khimicheskikh nauk, no. 3, 1964, 95-104

TOPIC TAGS: uranyl nitrate extraction, uranium refining, pyridine oxide derivative, peroxyacetic acid, distribution isotherm, tributyl phosphate

ABSTRACT: The article describes new compounds of uranyl nitrate with derivatives of pyridine-N-oxide (synthesized by oxidizing the corresponding pyridines with peroxyacetic acid), and discusses the mechanism of extraction of uranyl nitrate by some of them. With regular pyridine-N-oxides containing one $N_i \to 0$ group, uranyl nitrate forms compounds of the composition $UO_2(NO_2)_2 \cdot 2P_2O_{X_2}$ with molecules containing two $N \to 0$ groups, it forms the compounds $UO_2(NO_3)_2 \cdot P_2O_{X_2}$. Isotherms of the distribution of the property of purposes the property of the distribution of the distribution of the property of the distribution of the distributi

oxides in the region of uranyl nitrate concentrations corresponding to the linear portions

L 42979-65

ACCESSION NR: AP5009428

of the isotherms and when tributyl phosphate is used is determined by the process

$$UO_2^{2+}$$
 ag + $2NO_3^-$ aq + $2PyOx_{org} \rightleftharpoons UO_2(NO_3)_2 \cdot 2PyOx_{org}$.

To evaluate the extracting capacity of the various &-alkylpyridine-N-oxides, the equilibrium constants of this process were calculated. It was shown that these oxides equilibrium constants of this process were calculated. It was shown that these oxides equilibrium constants of this process were calculated. It was shown that these oxides equilibrium constants of this process were calculated. It was shown that these oxides equilibrium constants of this process were calculated. It was shown that these oxides equilibrium constants of this process were calculated. It was shown that these oxides equilibrium constants of this process were calculated. It was shown that these oxides equilibrium constants of this process were calculated.

SSSR. Novosib	irsk (Instituu	rganicheskoy khimii S of Inorganic Chemistr	ibirskogo otdeleniya Aka y, Siberian Branch, Aca	demii nauk demy of	
Sciences of the	SSSR)			, 1	
SUBMITTED:	10Jul64	ENCL: 00	SUB CODE: IC		
NO REF SOV: 005		OTHER: 003	OTHER: 003		
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MIKHAYLOV, V.A.; NAZIN, A.G.

Simplest extraction systems. Report No.22 Mater-tributyl phosphate- silver nitrate. Izv. 50 AN SSSR no.7 Ser. khim. nauk no.2:21-27 '64 (MIRA 18:1)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR, Novosibirsk.

8/0078/64/009/004/0867/0875

AUTHOR: Mikhaylov, V. A.; Grigor'yeva, E. F.

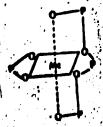
TITLE: Salts of dialkylphosphoric acids

SOURCE: Zhurnal neorganicheskoy khimii, v. 9, no. 4, 1964, 867-875

TOPIC TAGS: dialkylphosphoric acid salt, dimethylphosphate, diethylphosphate, di-n-propylphosphate, di-n-butylphosphate, di-n-amylphosphate, copper dibutylphosphate, solubility, synthesis, physical chemical property, polymerization, reversible polymerization, mechanism, rare earth dialkylphosphate, extraction, rare earth extraction

ABSTRACT: A number of the metal salts of the five lower di-n-alkylphosphoric acids were synthesized, classified as to solubility, and some of their physical chemical properties were determined. The Ag, Zn, Cd, Pb, Ni, Co, Cu, La, Sc, Fe, UO2, ZrO and Th salts of di-(methyl, ethyl, n-propyl, n-butyl, and n-amyl)-phosphoric acids were prepared from the appropriate metal carbonate

and the phosphoric acid: reaction with the rare earth salts were in aqueous solution; the dibutylphosphates of the other metals were precipitated from dibutylphosphoric acid saturated with the metal carbonate. The investigation of copper dibutylphosphate (W. H. V. Boldwin, C. E. Higgins. J. Inorg. and Nucl. Chem. 17, 334, (1961)) was extended. Cu, Ag, Zn, Cd, Pb, Ni and Co dibutylphosphates are monomeric in behizene solutions, but their reversible polymerization takes place on lowering the temperature. Possible causes for the dialkylphosphate polymerization are discussed. It is proposed that the lower three alkyl phosphates of lanthanum, which are water-soluble, crystalline and do not form high molecular weight products may be represented by the formula I:



Cord 2/3

while with increased alkyl chain length there is a transition to the polymeric chain structure II:

Data on the solubility and the formation of high molecular compounds is important in the extraction of the rare earth and other metals as the metal dialkylphosphates. Orig. art. has: 4 tables, 1 figure and 2 formulas

ASSOCIATION: Institut neorganicheskiy khimii Sibirskogo otdeleniya Akademii nauk SSSR (Institute of Inorganic Chemistry, Siberian Branch, Academy of

Sciences SSSR)
SUBMITTED: 01Mar63
SUB CODE: CH
3/3

DATE ACQ: 29Apr64 NO REF SOV: 014 ENCL: 00 OTHER: 027

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R001034020011-9"

MIKHAYLOV, V.A.; TORGOV, V.G. (Novosibirsk)

Determination of the activity coefficient of uranyl nitrate in dilute aqueous solutions by the extraction method. Thur. fiz. khim. 38 no.2:280-286 F 164. (MIRA 17:8)

1. Sibirskoye otdeleniye IN SSSR, Institut neorganicheskoy khimii.

MIKHAYLOV, V.A.; KHARCHENKO, S.K.

Accounting for nonadditivity of molecular interactions in the lattice model of a solution. Zhur. fiz. khim. 38 no.10:2372-2379 0 164. (MIRA 18:2)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR, Novosibirsk.

AP4038525 ACCESSION NR:

5/0020/64/156/003/0616/0618

AUTHOR: Nikolayev, A. V. (Corresponding member); Torgov, V. G.; Mikhaylov, V. A.; Kotlyarovskiy, I. L.

TITLE: Uranyl nitrate extraction with pyridine-1-oxide derivatives

SOURCE: AN SSSR. Doklady*, v. 156, no. 3, 1964, 616-618

TOPIC TAGS: uranyl nitrate extraction, solvent extraction, alphaalkylpyridine-1-oxide, extracting agent, extraction mechanism, extracting capability

ABSTRACT: The mechanism of solvent extraction of uranyl nitrate with a-alkylpyridine-1-oxides has been studied to discover an extracting agent for uranyl nitrate superior to those presently known, such as tributylphosphate (TBP), in respect to the solubility of their solvates in various organic solvents. The distribution isotherms of uranyl ditrate between the agreous and organic phases and direct synthesis indicated that the formation of the disolvate

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APPROVED FOR RELEASE: 07/12/2001

is the factor limiting uranyl nitrate concentration in the organic phase. An analogy was noted in the mechanism of extraction between q-alkylpyridine-1-oxides and neutral phosphoorganic compounds (TBP). On the basis of experimental equilibrium constants of the extraction process, the extracting capability of q-alkylpyridine-1-oxides was found to be 100 to 200 times higher than that of TBP. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: Institut neorganicheskoy khimii Sibirskogo otdeleniya Akademii nauk SSSR (Institute of Inorganic Chemistry, Siberian Department, Academy of Sciences, SSSR)

SUBMITTED: 10Feb64

DATE ACQ: 09Jun64

ENCL: 00

SUB CODE: GC

NO REF SOV: 002

OTHER: 010

'Card , 2/2

MIRHAYLOV, V.A.; TOKCOV, V.G.

Extraction of products of uranyl nitrate hydrolysis by X-n-amylpyridine-N-oxide. Zhur.neorg.khim. 10 no.12; 2780-2786 D '65. (MIRA 19:1)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR.

MIKHAYLOY, W.A.; NAZIN, A.G.

Salting of tributyl phosphate into aqueous solutions of vranyl nitrate. Zhur. fiz. khim. 39 no.9:2312-2314 3 '65.

(MIRA 18:10)

1. Institut neorganicheskey khimii Sibirskogo otdeleniya AN SSSR.

L 29775-66 ENT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: AP6015072 (A) SOURCE CODE: UR/0363/66/002/005/0886/0889

AUTHOR: Mikhaylov, V. A.; Popov, A. N.; Gorbachev, V. M.; Torgova, E. I.

ORG: Institute of Inorganic Chemistry, SO, Academy of Sciences, SSSR (Institut neorganicheskoy khimii SO Akademii nauk SSSR)

TITLE: Oxidation of PCl3 microimpurity to POCl3 in a methyltrichlorosilane medium

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 5, 1966, 886-889

TOPIC TAGS: phosphorus chloride, silane, chemical oxidation

ABSTRACT: The oxidation of PCl_3 in methyltrichlorosilane CH_3SiCl_3 (MTCS) was studied in connection with the necessity of thoroughly removing phosphorus impurity from MTCS when the latter is used for preparing semiconducting silicon carbide. The possibility of oxidizing microquantities of trivalent phosphorus was checked on PCl_3 present in amounts of 1.3-2.6 × 10^{-4} wt % in MTCS, the P^{32} radioisotope being used as the label. The oxidation of such small amounts of trivalent phosphorus was found to be inhibited by trace impurities. A fast and complete oxidation of PCl_3 to $POCl_3$ by atmospheric oxygen takes place when PCl_3 is present in amounts greater than 0.1

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UDC: 546.18 + 546.287

L 29775-66

ACC NR: AP6015072

vol % in purified MTCS. However, the introduction of >6×10⁻⁴ wt % FeCl₃ also stops the oxidation of macroquantities of PCl₃. A complete conversion of macro- and microquantities of PCl₃ into POCl₃ in a medium of technical MTCS or MTCS contaminated with iron compounds is achieved by using ozonized air or air containing 20-30 vol % Cl₂ or NO₂. Orig. art. has: 2 figures and 2 tables.

SUB CODE: 07,00 SUBN DATE: 06Aug65/ ORIG REF: 005/ OTH REF: 006

Card 2/2

ALC NR. AP6036762

SOURCE CODE: UR/0020/66/171/001/0147/0150

AUTHOR: Mikhaylov, V. A.; Korniyevich, H. V.; Polovinkina, R. A.

ORG: Institute of Inorganic Chemistry, Siberian Section, Academy of Sciences, SSSR (Institut neorganicheskoy khimii Sibirskogo otdeleniya Akademii nauk SSSR); Novosibirsk State University (Novosibirskiy gosudarstvennyy universitet)

TITLE: Mothod of determining the electric mobility of impurities in liquid metals and the mobility of bismuth in liquid gallium

SOURCE: AN SSSR. Doklady, v. 171, no. 1, 1966, 147-150

TOPIC TAGS: bismuth, gallium, nonferrous liquid metal

ABSTRACT: In order to find a method for extrapolating apparent values of the mobility u of an impurity in a liquid metal to zero time, an analysis was made of the kinetic curves of the accumulation of an impurity in a capillary, curves obtained by L. I. Ponomareva by solving with a computer the electrodiffusion equation

$$\frac{\partial c}{\partial \theta} = \frac{\partial^{4}c}{\partial z^{4}} - S \frac{\partial c}{\partial z}$$

where c is a dimensionless concentration N/N_o, z a dimensionless length x/L (L being the length of the capillary), θ dimensionless time Dt/L² (D is the diffusion coefficient, t the time) and S a dimensionless parameter equal to BL/D (B is the velocity

Card 1/2

UDC: 541.13:546.3-19:681'87

of the impurity equal to the product of true mobility uo and the potential gradient). The analysis showed that the dependence of the observed mobility on 0 at constant S is approximately linear in the range of considerable change in 0. At constant D and L, 0 is proportional to the time of passage of the current, so that the extrapolation to zero time can be carried out in the coordinates u.t. The proposed method permits the determination of the effective diffusion coefficient D together with the mobility from the slope of the kinetic curves. The method was applied to the determination of from the slope of the kinetic curves. The method was applied to the determination of the mobility of bismuth in liquid gallium. At Bi concentrations of 0.4 and 0.02%, the mobility values are (5.80% 1.9) 10⁻³ and (6.77% 0.50) 10⁻³ cm²/y see respectively. The paper was presented by Academician Voyevodskiy, V. V., 12 Feb 66. Orig. art. has: 4 figures and 5 formulas. SUB CODE: CL-11/SUEN DATE: 01Feb66/ ORIG REF: 003/ OTH REF: 008

MERZIENKO, V.Y., hand.tekhn.eduk; KUIZHTUSKII, V.I., starshiy naucunjy setrudnik, kand.tekhn.nauk; MIRHATLOV, V.A., starshiy nauchyy sotrudnik, kand.tekhn.nauk

High-tapacity installations and efficient methods of dricking water purification. Shoremouth.trud.RMII AKKH no.2022-40 153.

(MIP4 77:00)

l. Ruhovodibel' sektora vadosnabaneniya Rostovekogo markanenisaledovatel'skogo inchisuta Akademii kommanal'nego khozyzystva (for Merzlenko).

KOGARKO, S.M., LYAMIK, A.J., MIKHAYLOV, V.A.

Studying the decomposition of protylers and the fishe possage through a packed armsther at the presources. Entre pros. 41 no.8:621-625 Ag *65. (MISA 18:9)

1. Institut khimicheskoy fiziki AN SSSS.

MIKHAYLOV, V.A.; ROYNISHVILI, V.N.; CHIKOVANI, G.Ye.

Spark chamber with a large discharge gap. Fiz. chast. vys. energ. no.1:85-89 *65. (MIRA 18:12)

MIKHAYLOV, Vladimir Aleksandrovich; RUKAVISHNIKOV, Sergey
Borisovich; FREYDZON, Isaak Rubinovich; VYLKOST, V.D.,
inzh., retsenzent; KHAYKIN, A.B., kand. tekhn. nauk dots,
retsenzent; NORNEVSKIY, B.I., prof., nauchn. red.

[Electric propulsion of ships and electric driving of ship mechanisms] Elektrodvishenie sudov i elektroprivod sudovykh mekhanizmov. Leningrad, Sudostroenie, 1965.
606 p. (MIRA 18:7)

ACC NRI AM 5025912 (N)

Monograph

UR/

Mikhaylov, Vladimir Aleksandrovich; Rukavishnikov, Sergey Borisovich; Freydzon, Isaak Rubinovich

Electric operation of ships and electric drive in ship mechanisms (Elektrodvizheniye sudov i elektroprivod sudovykh mekhanizmov) Leningrad, Izd-vo "Sudostroyeniye," 1965. 606 p. 111us., biblio., tables. 4400 copies printed.

TOPIC TAGS: ship building, electric drive

PURPOSE AND COVERAGE: This book is intended for students specializing in electrical equipment of ships in advanced maritime schools. It may also be useful to ship designers. The book deals with the theory and methods of calculating automatic electric drives of ship screws and auxiliary electrical systems. It describes the electric drives of ship steering mechanisms, loading devices, pumps, ventilators, and compressors.

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UDC 629.12: 621.31

ACC NR: AM5025912

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Ch. 2. Transient conditions of ship electric drives -- 61

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Ch.3. Ship propulsion power plants -- 97

Ch.4. D-c screw drives -- 125

Ch.5. Transient processes in d-c screw drives -- 197

Ch.6. A-c screw drives -- 232

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Cord 2/3

ACC NR: AM5025912

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Ch.10. Electric drives for anchor-hawser devices -- 486

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SUB CODE: L3/ SUBM DATE: 24Apr65/ ORIG REF: 039/ OTH NEF: 001/

STERMAN, L.S., doktor tekhn.nauk; MIKHAYLOV, V.D., inzh.

Determination of critical thermal currents during the boiling of a high-boiling heat carrier in pipes. Teploenergetika 10 no.2:82-87 F *63.

(MIRA 16:2)

1. Moskévskiy energeticheskiy institut.
(Heat—Transmission)

(Steam)

s/0170/64/000/002/0010/0014

ACCESSION NR: AP4012790

AUTHOR: Sterman, L. S.; Mikhaylov, V. D.

TITLE: Study of critical heat fluxes during surface boiling of organic liquids in tubes

SOURCE: Inzhenerno-fizicheskiy zhurnal, no. 2, 1964, 10-14

TOPIC TAGS: heat flux, surface boiling, organic liquid

ABSTRACT: The choice of heat fluxes in newly designed devices cannot be accomplished without knowing the magnitudes of the critical heat fluxes. Most of the existing quantitative relationships are based on data from experiments with water; studies of organic carriers are not very numerous. The present experiment used the procedures and experimental devices described earlier by the authors (Teploenerge-tika, No 2, 1963), and it studied 95.6-96.0% pure ethyl alcohol. Experimental results are presented on Figures 1 and 2 of Enclosures 1 and 2. An analysis of various results shows that within the investigated range of values the size of the tube does not affect the magnitudes of the critical heat flux. It is also found that none of the formulas proposed by various Soviet authors can be used for the

Card 1/1/2

ACCESSION NR: AP4012790

determination of the critical flux values for the surface boiling of ethyl alcohol in tubes. Orig. art. has 3 figures and 1 table.

ASSOCIATION: Energeticheskiy institut (Power Engineering Institute), Moscow

SUEMITTED: 10Jun63

DATE ACQ: 26Feb64

ENCL: 02

SUB CODE: AI, PH

NO REF SOV: 012

OTHER: 000

Card 2/1/2

8/0096/64/000/00?/0078/0081

AUTHORS: Shly*kov, Yu. P. (Candidate of technical sciences); Abramov, A. I. (Engineer); Leongardt, A. D. (Engineer); Mikhaylov, V. D. (Engineer)

TITLE: Critical thermal load in forced monoisopropyldiphenyl flow in tubes and channels

SOURCE: Teploenergetika, no. 2, 1964, 78-81

TOPIC TAGS: monoisopropyldiphenyl, forced flow, critical thermal load, underheat, saturation temperature

ABSTRACT: An experimental investigation has been made of critical thermal loads in monoisopropyldiphenyl (MIPD) forced flow on a flat plate and in a tube under large flow and temperature variations. The flow analyses were conducted in a closed circuit system with all structural components, in contact with MIPD, made from 1Kh18N9T steel. Pressure measurements were made by a differential manometer type DSE-9A and a secondary instrument DSPI-02. Heating was accomplished electrically, and the thermocouple measurements were recorded on EPP-09 potentiometer. The critical thermal load for the plates varied from 3.7 x 10 to 4.8 x 10 kcal/m² hr

Cord 1/2

at speeds of 6.3 m/sec and 4.2 m/sec, underheat temperature variation range from 120 to 195C, and pressures of 3 to 6 atm. It is shown that the critical thermal flow varies linearly with the underheat temperature. A similar study in a 10-mm by 150-mm tube yields the same result up to 100C, after which the slope of linear growth of critical heat flow versus temperature decreases by about 20%. The experimental results indicate that forced flow of MIPD attains large critical thermal flow values before reaching saturation temperatures. Orig. art. has: 5 figures and 2 tables.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 14Feb64.

ENCL: 00

SUB CODE: AI

NO REP SOV: 006

OTHER: OC1

Card 2/ 2

L 36735-65 EWT(1)/EPA(s)-2/EWT(m)/EPF(c)/EPF(n)-2/EWG(m)/T/EFR/EWP(t)/EWP(b)

ACCESSION NR: AT5007903 Pr-4/Ps-4/Pu-4 s/0000/64/000/000/0107/0124

RM/DJ/GS

38

AUTHOR: Sterman, L. S.; Mikhaylov, V. D.; Vilemas, Yu.; Loginov, A. A.;

Abramov, A. I.

TITLE: Determination of critical heat fluxes when boiling high-boiling organic heat-transfer agents in tubes

SOURCE: Moscow. Institut atomnov energi. Issledovaniya po primeneniyu organicheskikh teplonositeley-zamedliteley v energeticheskikh reaktorakh (Research on the use of organic heat-transfer agents and moderators in power reactors). Moscow, Atomizdat, 1964, 107-124

TOPIC TAGS: organic cooled reactor, thermal reactor, power reactor, nuclear power plant, reactor coolant, heat transfer agent, critical heat flux, biphenyl, isopropylbiphenyl

ABSTNACT: Critical heat fluxes were investigated during the surface boiling of high-temperature organic heat-transfer agents monoisopropylbiphenyl a mixture of biphenyl (26.5%) and biphenyl oxide (73.5%), and biphenyl in a tube. All the tests were conducted in a tube having a 10-mm inner diameter and a wall 1.5 mm thick. Experimental values of qcrit were obtained for monoisopropylbiphenyl and

Card 1/2

deriving an equation for	determining quest for volum	ids. The authors conclude by me and surface boiling under . has: 8 figures, 2 tables,
and 14 formulas.	omnov onergii. Moscow (The	titut of Atomic Energy)
and 14 formulas.	omnoy energii, Moscow (Ins	titut of Atomic Energy) SUB CODE: NP, TD
and 14 formulas.		!

L 43739-65 EMT(m)/EMA(m)-2

\$/0056/65/048/002/0695/0700

AP5006520

AUTHOR: Mikhaylov, V. D.

TITLE: Angular distributions during charged particle pair production

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 48, no. 2, 1965, 695-700

TOPIC TAGS: angular distribution, particle angular distribution, electron positron pair, fast charged particle

ABSTRACT: The angular distributions of secondary particles formed during electronpositron pair production by a fast charged particle in the field of the nucleus are calculated. Distributions are obtained for the pair particles

$$d\sigma = \frac{16}{9\pi} Z^2 e^3 \frac{p_{\perp} dp_{\perp}}{(1 + p_{\perp}^2)^2} \ln^3 \frac{E}{\mu} \left[1 + \frac{p_{\perp}^2}{(1 + p_{\perp}^2)^2} \right] +$$

as well as for the impinging particle after collision

$$d\sigma = \frac{28}{9} \frac{Z^2 e^8}{(2\pi)^8} \ln \frac{E}{2p_{\perp} \mu} \ln \mu \frac{dp_{\perp}}{p_{\perp}^8}.$$

	ACCESSION NR: AP5006520 A graph of the particle distribution of the Enclosure. "In conclusion Rosental", and also to G. T. Zatsephim for discussion." Orig. art. has ASSOCIATION: Moskovskiy in the nermon Physics Tratificts."	the author expresses gr in and participants in a s: 2 figures, 19 formul	ratitude to <u>I. L.</u> a seminar conducte Las.	d by
	Physics Institute) SUBMITTED: 18Jul64	ENCL: 01	SUB CODE:	NP
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MIKHAYLOV, Y.D., inshener.

Mechanising foundry shops in the Ministry's plants. Strei. 1 der.
mashinostr. 1 mo.3:23-27 Mr '56. (MIMA 10:1)

(Foundries)

MIKHAYLOV, V.D. inwhener. Inventions and efficiency promotion in the building and road building machinery industry. Import SSSR 2 no.5:38-39 My '57. (High 10:7) (Hoad machinery) (Building machinery industry)

Mikhaylov, V.D., inzhener.

Building-machinery industry in the U.S.S.E. Stroi.i dor.mashinostr.
2 no.10:22-26 0 '57. (MIEA 10:11)

(Building machinery industry-History)

MIKHAYLOV, V.D., otv. red.; ROZENTAL', I.L., otv. red.; PCHELINTSEVA, G.M., red.; VINOGRADOVA, Ye.M., red.; VLASOVA, N.A., tekhn. red.

[Some problems in the physics of elementary particles and of the atomic nucleus] Nekotorye voprosy fiziki elementarnykh chastits i atomnogo iadra. Otvet. red. V.D.Mikhailov i I.L. Rozental. Moskva, Gosatomizdat, 1962. 134 p. (MIRA 15:7)

1. Moscow. Inzhenerno-fizicheskiy institut.
(Particles (Nuclear physics)) (Nuclei, Atomic)

L 17215-63 FY ACCESSION NR: AP3	WT(1)/ENT(m)/BDS/ES(w)-2 AFFTC/ASD/SSD Pab-4 3005298 S/C056/63/045/002/0383/0385
AUTHOR: Mikhaylov	v, v. D
TITLE:	Reaction with colliding electron beams
整体的 医结节 人名英格兰姓氏 化二烷基酚 克克克	sper. i teoret. fiz., v. 45, no. 2, 1963, 383-385
positron annihilat	iding beam , electron—electron scattering, electron—tion, muon pair production
- 11-L Alex areas se	imate is made of the energies and the angles at ection (both differential and integral) for muon n colliding electron-electron beams becomes greater
than the cross se	ction for muon pair production in electron-position
beams. This prob.	
electron beams are	e easier to obtain in practice. It is found that .m.s. energy of 1.5 or 2 BeV the electron-electron eeds the electron-positron one for practically no

L 17215-63 ACCESSION NR: AP3005:	经工厂的 襁 电电影 医双侧性性骨髓管 斯特尼尔 医二氯化丁二氯甲酚 医二氯化二酚 医电视 化氯化甲基甲基甲基 精動物
The second of th	n occurring at about 1.2 BeV. However, as comes even slightly smaller than this critical
value, there exists a	Large range of angles for whiteh the Large range of angles for the factor of the suther is grateful to I. L.
Rozental for suggest has 5 formulas and 1	ing the problem and discussions.
群 建基金 医大脑结合征 计多数编译 医毛 法人名英格兰姓氏人名	kiy inzhenerno-fizicheskiy institut (Moscow
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S/053/63/079/003/003/003 B117/B186

AUTHORS:

Birger, N. G., Mikhaylov. V. D., Rozental', I.L., Sarycheva,

L. I.

TITLE:

Strong interactions at high energies

PERIODICAL: Uspekhi fizicheskikh nauk, v. 79, no. 3, 1963, 523 - 544

TEXT: In this survey of papers by western and Soviet authors, published from 1949 through 1962, experimental data on the interaction of high-energy particles are compared with the theory. The following problems are handled: (1) Main theoretical results; (a) polar approximation; (b) method of complex orbital momenta; (c) relationship between the cross sections (nuclear cross sections); theorem of Pomeranchuk (I. Ya. Pomeranchuk, ZhETF 34, 725 (1958). (2) Interaction cross section of pions and nucleons of energies of 2 to 28 Bev with nucleons; (a) total interaction cross section of particles and antiparticles with protons; (b) elastic scattering of protons and pions. (3) Interaction cross section of high-energy pions and nucleons with atomic nuclei; (a) particularities in the measurement of the interaction cross sections of cosmic particles; (b) Card 1/2

	S/053/65/079/003/003/003 B117/B186				
Strong interactions at	B117/B186				
mination of the interaction cross	oross sections in air which is based on of the nucleon component; (c) detersections of particles of ultra high figures, 5 tables, and 83 references.				
 [제기를 제공할다고 하는 방문대 인공원 기계 공원자 2008 - 2017 - 1988년 발표 [제품] [제품] [제품] [제품] [제품] [제품] [제품] [제품]					

STERMAN, L. S.; MIKHAYLOV, V. D.; VILEMAS, Yu.; ABRAMOV, A. I.

"Critical heat flows in boiling of organic fluids in tubes and in large volume."

paper submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 May1964.

Power Inst, Moscow.

R#/GD/WL EWT(1)/EWT(m)/EWP(j) I. 40887-66 (A)SOURCE CODE: UR/0000/65/000/000/0131/0145 ACC NRI AT6021841 AUTHOR: Sterman, L. S.; Mikhaylov, V. D.; Vilemes, Yu.; Abremov, A. I. 35 ORG: Moscow Power Institute (Moskovskiy energeticheskiy institut) C+1 TITLE: Critical heat fluxes in boiling of organic heat transfer media in tubes and in a large volume SOURCE: Teplo- i massoperenos. t.III: Teplo- i massoperenos pri fazovykh prevrashcheniyakh (Heat and mass transfer. v. 3: Heat and mass transfer in phase transformations). Minsk, Nauka i tekhnika, 1965, 131-145 TOPIC TAGS: boiling, heat flux, heat transfer fluid ABSTRACT: Experiments on surface boiling in tubes were carried out in an experimental unit consisting of a closed loop with forced circulation. All the tests were made on a tube with an inside diameter of 10 x 10-3 meters, made of 1Kh18N9T steel. Values of the critical heat flux, qcr, were obtained for monoisopropyldiphenyl at pressures of (2, 3, 5, 7, 8) x 105 mewtons/m² and circulation rates of 4 and 8 meters/sec, while the underheating of the liquid up to the saturation temperature varied from 0 to 190°C. With Dowtherm, the pressures were (1, 3, 5, 10) x 10° Cere 1/2

L 40337-66

ACC NR: AT60218L1

newtons/m² and the circulation rates from 5 to 15 meters/sec, while the underheating varied from 0 to 160°C. With ethyl alcohol, the pressures were (2, 5, 12.5) x 10° newtons/m² and the circulation rates were 4, 8, and 15 meters/sec, while the underheating varied from 0 to 100°C. The article derives empirical dimensionless equations both for boiling in tubes and in a large volume (pool boiling). These equations are tested on existing experimental data from the literature and the results of the comparison are exhibited in a series of curves. Orig. art. has: 16 formules, 6 figures and 3 tables.

SUB CODE: 20/ SUBM DATE: 09Dec65/ ORIG REF: 029/ OTH REF: 009

Card 2/2MLP

MIKHAYLOV, V.D.

Angular distributions in the process of pair production by a charged particle. Zhur. eksp. i teor. fiz. 48 no.2: 695-700 F '65. (MIRA 18:11)

1. Moskovskiy inzhenerno-fizicheskiy institut.

ACCESSION NR: AP4043309 5/0143/64/000/007/0108/0110 AUTHOR: Mikhaylov, Y. D. (Engineer); Abramov, A. I. (Engineer) TITLE: Determination of burnout heat flux during the boiling of monoisopropylbiphenyl in a tube IVUZ. Energetika, no. 7, 1964, 108-110 TOPIC TAGS: heat exchange, heat exchanger, burnout heat flux ABSTRACT: The results of an experimental investigation of the critical heat flux of monoisopropylbiphenyl under surface-boiling conditions in 10-mm-diameter, 100-mm-long tubing are reported; the experimental setup and aethods were described earlier by L.S. Sterman and V. D. Hikhaylov (Teploenergetika, no. 2, 1963). The critical heat flux was measured at 2 and 8 atm and at circulation velocities 4 and 8 m/sec, with subcooling temperatures (below the saturation temperature) of 0-194C. The effect of the circulation rate on the critical heat flux was also measured at 2 atm. Orig. art. has: 2 figures. Card 1/2

"APPROVED FOR RELEASE: 07/12/2001

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ard 2/2	· .		*•					, ,		

MIKHAYLOV, V.F., doktor tekhnicheskikh nauk, professor; TRET'YAKOV, A.P.,

Method of drawing up intensive schedules of locomotive utilisation.

Trudy MIIT no.79:174-215 *53. (MIRA 8:5)

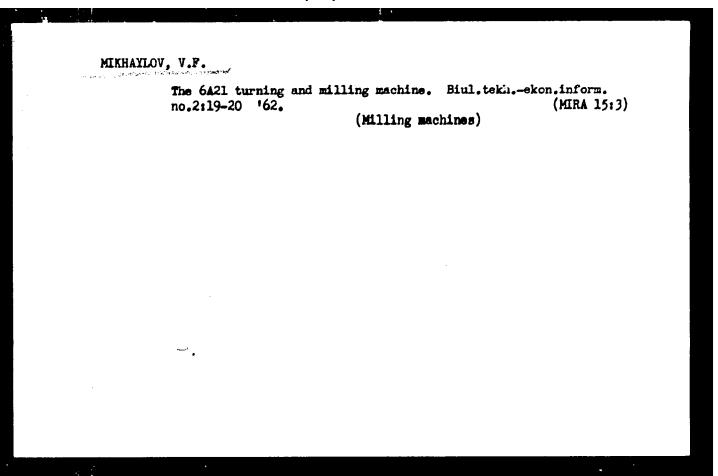
(Locomotive—Performance)

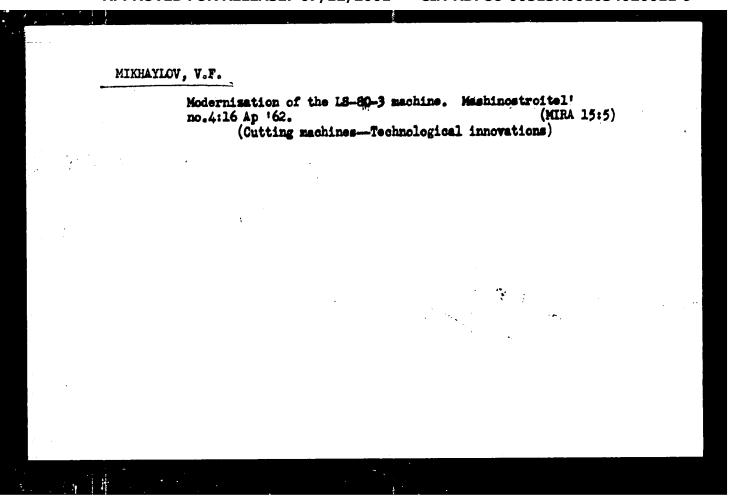
NIKOLAYEV, Ivan Ivanovich, professor, redaktor; MIKHAYLOV, Vladimir Fedorovich, professor; TRET'YAKOV, Aleksandr Fetrovich, Kandidat tekhnicheskikh nauk; BOCHAROV, Hikolay Filippovich, kandidat tekhnicheskikh nauk; TSELISECHEV, P.A., inzhener, redaktor; VERINA, G.P., tekhnicheskiy redaktor.

[Rolling stock and locomotives] Podvizhnoi sostav i tiaga.poesdov. Izd. 2-e, perer. Moskva, Gos. transportnoe zhel-dor. izd-vo. 1955. 439 p. (MLRA 8:6)

1. Chlen-korrespondent Akademii nauk SSSR (for Nikolayev).
(Railroads--Rolling stock) (Locomotives)

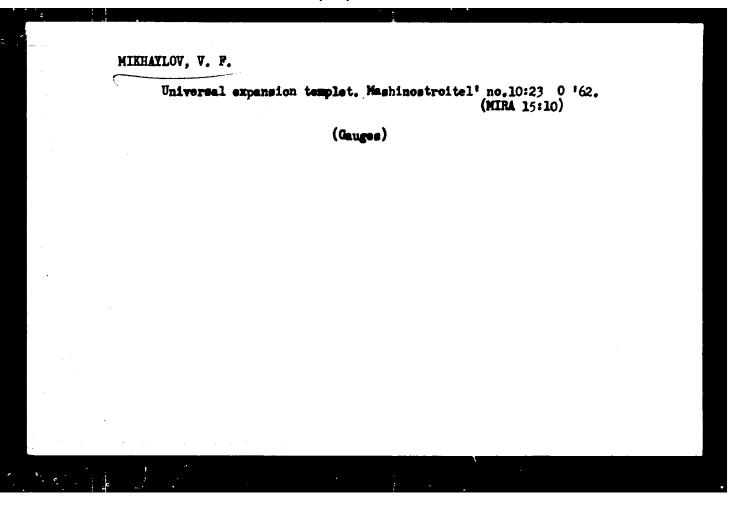
Innovations suggested by V.V.TSekhmistrenko. Mashinostroitel'
no.2:3-4 F '6. (MIRA 15:2)
(Ulyanovsk-Machine-tool industry-Technological innovations)





Device for lapping working surfaces of micrometers. Mashinostroitel' no.8122-23 Ag '62. (MIRA 15:8)

(Grinding machines)



MIKHAYLOV, V. F. Attachment to a magnetic plate. Mashinostroitel no.12:28 D 162. (MIRA 16:1)

D 162.

(Grinding machines-Attachments)

GORYUSHKO, V.Ye. [Horiushko, V.IE.]; MIKHAYLOV, V.F. [Mykhailov, V.F.];
FOTMASHKOV, V.I., kand. tekin. neuk; TKACH, G.A. [Tkech, H.A.],
kand. tekhn. neuk

Control of carbonization and settling columns in the scda
industry. Ehim. prom. [Ukr.] nc.4742-45 O.D'63.

(NIRA 17:6)

30143 S/194/61/000/007/073/079 D201/D305

9.6000 (1013, 1089, 1159)

AUTHORS: Is

Isabayev, Ye.A., Kozak, L.V., Mikhaylov, V.F., Orlov, D.P., Starikov, V.M. and Chursin, G.P.

TITLE:

Multi-channel amplitude analyzer with simple chan-

nel switching circuit

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika,

no. 7, 1961, 34, abstract 7 K203 (V sb. Optika.

Yadern. protsessy. Alma-Ata, 1959, 51-57)

TEXT: The description is given of the circuit of a 50-channel amplitude analyzer with amplitude-to-time conversion. The arrangement employs a simple time-discriminator circuit built around a 50-phase single-shot multivibrator, gating in sequence 50 coincidence circuits for the duration of 130 μ sec. The multi-vibrator is triggered by the leading edge of the transformed analyzed pulse of duration t. The trailing edge of the pulse is applied to the coincidence circuits and is transmitted to the output of the N-th channel,

Card 1/2

30143 S/194/61/000/007/073/079 D201/D305

Multi-channel amplitude analyzer...

with N defined as N = $t/130~\mu$ sec. Each channel is terminated in a counter. The analyzer is being used at the Kazakhstan State University. 6 references. Abstracter's note: Complete translation



Card 2/2

S/169/62/000/012/031/095 D228/D307

9.6150

AUTHOR:

Mikhaylov, V.F.__

TITLE:

Simple multichannel amplitude pulse analyzer

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 12, 1962, 46, abstract 12A376 (Sb. nauchn. rabot Kafedry optiki i Kafedry experim. fiz., Kazakhsk. un-t, no. 2,

1960, 81-83)

TEXT:

A simplified analyzer circuit is proposed for studying the emission spectra of radioactive compounds possessing weak activity. The circuit consists of a unit for forming a pulse with an amplitude proportional to that of the input pulse and with a preset duration. An HIN-09 (EPP-09) type potentiometer with a print carriage is used in the analyzer. The instrument exhibits a linear input amplitude characteristic up to 100 v and is very stable in prolonged measurements.

Abstracter's note: Complete translation

Card 1/1

3/089/60/009/003/008/014 B006/B063

AUTHOR:

Mikhaylov, V. F.

TITLE:

A Simple Multi-channel Pulse-height Analyzer 19

PERIODICAL;

Atomnaya energiya, 1960, Vol. 9, No. 3, pp. 217-219

TEXT: The writer of the present "Letter to the Editor" describes a pulse-height analyzer which, combined with a self-recording electropotentiometer, gives good results. Fig. 1 shows the circuit diagram of the pulse-forming block. The most suitable electropotentiometer for this analyzer is that of the type 3nn-09 (EPP-09) which has a printing carriage and a millivolt scale. The circuit diagram and the mode of operation of this instrument are explained. The potentiometer indicated by R3 in the circuit diagram is used for the zero adjustment of the carriage of the electropotentiometer. The paper tape of the recorder

can be divided for the various channels according to the problem to be solved. The instrument has a linear amplitude characteristic up to an input voltage of 100 v. The spread of the calibration pulses does not

Card 1/2

APPROVED FOR RELEASE: 07/12/2001

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A Simple Multi-channel Pulse-height Analyzer S/089/60/009/003/008/014 B006/B063

exceed 2 mm. The analyzing circuit proved to be very stable in a continuous operation: the zaro line did not shift even after several days. Fig. 2 shows the curve of pulse distribution among the channels (amplitudes) as resulting from the decoding of the alpha-particle pulse recording of $0^{2.54}$ and $0^{2.58}$ from a pulsed ionization chamber. The author thanks Ye. M. Kolesnikov for his assistance in the construction of the circuit. There are 2 figures.

SUBMITTED:

May 28, 1960

Vc

Card 2/2

S/120/62/000/003/044/048 E032/E114

2/6000 AUTHOR:

Mikhaylov, V.F.

TITLE:

The use of toluene-argon and n-heptane-argon mixtures

as working gases for a pulsed ionization chamber

PERIODICAL: Pribory i tekhnika eksperimenta, no.3, 1962, 189-190

TEXT: The author has investigated the operational characteristics of a chamber filled with the above mixtures. Flane two-electrode geometry was employed (distance between electrodes 8 cm, working pressure 4 atm). The output was fed through a pre-amplifier, main amplifier and diode limiter into a 100-channel kicksorter A/(-100-1) (AI-100-1). The α-particle source (uranium) was deposited electrolytically on a stainless steel disc and was placed directly on one of the electrodes (- 3000 V). The first tube of the pre-amplifier operated without a grid leak. The bandwidth of the amplifier was narrow: intrinsic rise time and pulse length were roughly 1.5 μsec. The figure shows the results obtained. The conclusion is that two-electrode chambers (without a grid) filled with the above

Card 1/1 2

The use of toluene-argon and ...

S/120/62/000/003/044/048

E032/E114

mixtures may be used to study the energy distribution of α -particles emitted by some radioactive elements. There is 1 figure.

ASSOCIATION: Geologicheskiy institut AN SSSR (Geological Institute AS USSR)

October 9, 1961 SUBMITTED:

Legend to Figure: Pulse height distributions due to uranium

α-particles: a - argon; b - argon with

toluene (1) and n-heptane (2).

Card 2/1/2

CIA-RDP86-00513R001034020011-9" **APPROVED FOR RELEASE: 07/12/2001**

S/007/63/000/001/001/001 B107/B186

AUTHORS:

Cherdyntsev, V. V., Mikhaylov, V. F.

TITLE:

A protogenic transuranium isotope

PERIODICAL:

Geokhimiya, no. 1, 1963, 3-14

TEXT: Cm²⁴⁷ and its decay products Am²⁴³ and Pu²³⁹ were detected in six

samples by alpha-spectrometry. Cm²⁴⁷ decays according to the scheme:

 $Cm^{247} \xrightarrow{\alpha} Pu^{243} \xrightarrow{\beta} Am^{243} \xrightarrow{\alpha} Np^{239} \xrightarrow{\beta} Pu^{239}$

24360 yr

10 235. The half-life of Cm 247 is >4.107 yr (references see below); in the present paper, a complicated alpha-spectrum was found between 4.2 and 4.6 Mev; gamma-radiation energy ranges from 90 to 250 kev and the half-life is estimated to be 2.5.108 yr. Lines of 5.15 Mev and 5.27 Mev from Pu 239 and Am 243 were found in the alpha-spectrogram. Two molybdenite samples of pegmatite from Transcaucasia were studied (V. V. Cherdyntsev,

Card 1/2

A protogenic transuranium isotope

S/007/63/000/001/001/001 B107/B186

D. P. Orlov, Ye. A. Isabayev, V. I. Ivanov, Geokhimiya, no. 10, 840, 1961); age according to Ye. M. Kolesnikov GIN AN SSSR: 23 million years. Four different fossil bonds of paleolithic age were also studied. Uranium and thorium fractions were used to measure the alpha-spectra between 4.C and 5.5 Mev. Preliminary measurements showed no spontaneous fission of Cm²⁴⁷. The concentration in the minerals reaches 10-8 %, and the ratio Cm²⁴⁷/U²³⁸ is 10⁻² activity units. The striking accumulation of U²⁵⁵ in the above molybdenites is possibly due to the curium content. There are 5 figures and 3 tables. The most important English-language reference is: H. Diamond et al. Phys. Rev., 105, 679, 1957.

ASSOCIATION: Geologicheskiy institut AN SSSR, Moskva (Institute of Geology

AS USSR, Moscow)

SUBMITTED:

October 5, 1962

Card 2/2

MIKHAYLOV, V.F.

Use of mixtures of toluene-argon and H-heptane-argon as fillers; for a pulse ionization chamber. Prib. i tekh. eksp. 7. no.3:189-190 My-Je '62. (MIRA 16:7)

1. Geologicheskiy institut AN SSSR. (Tonization chambers)

CHERDINTSEV, V.V.; MIKHAYLOV, V.F.

Primary transuranium isotope in nature. Geokhimiia no.1:3-14
Ja '63. (MIRA 16:9)

1. Geological Institute, Academy of Sciences U.S.S.R., Moscow. (Transuranium elements)

MIKHAYLOV, V.F.

Operation of time-delay electronic collimaters in case the specimen is coated with a thin inactive film. Prib. i tekh. eksp. 8 no.5:49-50 S-0 '63.

Appearates for determining small questities of radioelements by the method of alpha-gamma coincidence selection.

75-77 (MIRA 16:12)

1. Geologicheskiy institut AN SSSR.

KASINOV, B.N., inzh.; KOKIN, V.D., inzh.; MIKHAYLOV, V.F., inzh.

D-543 universal single-bucket frontal loader. Stroi. i dor.
mash. 8 no.11:4-6 N *63. (MIRA 17:1)

MIKHAYLOV, V.G., dotsent, kandidat tekhnicheskikh nauk.

On the use of data in the All-Union State Standard 2185-43 to determine the basic parameters for reducing gears. Hauch.trudy MZPI no.2:107-110 '55. (MLRA 9:3) (Gearing-Standards)

Technical museums at the eight-year schools. Politekh. obuch. no.7: 46-50 Jl *59. (MIRA 12:9)

1. Pedagogicheskiy institut, g. Yelabuga. (Children's museums)

MIKHAYLOV, V.G.

MIKHAYLOV, V.G., professor-doktor; BUCHNEV, V.K., kandidat tekhnicheskikh nauk, retsensent; RADOMA, A., tekhnicheskiy redaktor.

[Drilling blast holes] Sverlenie shpurov. Sverdlovsk, Gos. nauchnotekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1947. 191 p. (Boring) (MERA 7:8)

Petroleum Engineering
"The Oil and Gas Well Diffler" (for trade schools), Gostoptekhizdet, 1948
Summary N . 60, 26 May 52; ER-52056899

MICHAILOV, V. G.

Author: Hilde lov. V. G.

Title: The mining instruments. (Sornyi instrument)

City: Moscow

Publisher: Publication of Coal Mining Industry

Date: 1950 167 pages

Available: Library of Congress

Sources: Monthly List of Russian Accessions, Vol. 3, Jan., 1950, p. 684

MIKHAYLOV, V.G., professor, doktor tekhnicheskikh nauk; SIMILEYSKIY, M.G., kandidat tekhnicheskikh nauk.

Experimental use of electric core drills for boring blast holes in hard rock. Bor'ba e sil. 1:83-89 '53. (NIBA 7:10)

1. Novocherkasekiy politekhnicheskiy institut (for Simileyskiy)

MIKHAYLOV, V.G., professor, doktor.; KHARLAMOV, V.I., assistant.

Experiments in drilling holes in iron ore. Nauch. trudy MPI 26:58-63 '55. (NIBA 9:12) (Boring)

MIXHAYLOY . W.G., prof., doktor tekhn.nuuk; ASYCHOMCO, Ye.I., inth.

Dry drilling of boreholes with circular cuts and recovel of drill cuttings by means of a suction cleaner. Mauch.dokl.mys.chkolm; gon. delo no.2:32-36 59. (MIRA 12:7)

Predstavlena kafedroy gornykh mashin i rudnichnogo transporta
 Novocherkasskogo politokhnichenkogo imstituta im. S. Ordzhonikicze.
 (Boring) (Vacuum cleanors)

MIKHAYLOV. V.G., prof., doktor tekhn.nauk; SIMILEYSKIY, M.G., dots., kand.tekhn.nauk; RYLEV, E.V., starshiy prepodavatel', kand. tekhn.nauk; SHAMSHIN, V.N., assistent

Investigation and selection of boring machine cutter bits.

Trudy EPI 80:3-121 *59. (MIRA 13:12)

(Boring machinery)

SIL'NYA, V.G.; MIRHAYLOV, V.G.

Theory of the operation of a bucket loader on an incline. Trudy
NPI 130:5-18 '61. (MIRA 15:4)

(Coal handling machinery)

RYUMIN, I.F.; MIKHAYLOV, V.G.

Improvement of the design of the GNL-30 loader and study of its performance in upraises. Trudy NPI 130:95-104 '61. (MIRA 15:4) (Coal handling machinery)

MIKHAYLOV, V.G.; KRAPIVIN, M.G.; SIDOROV, S.I.

Study of cutters and conditions of drilling with manual electric drills. Sbor.nauch.trud.UkrNIISol' no.6:52-54 '62. (MIRA 17:3)

MIKHAYLOV, V.G., prof., doktor tekhn.nauk; SIMILEYSKIY, M.G., kand.tekhn.nauk; SHAMSHIN, V.N., inzh.

New bits for auger boring of blast holes. Gor.zhur. no.12:58-59 D 63. (MIRA 17:3)

1. Novocherkasskiy politekhnicheskiy institut.

SIDOROV, S.I.; MIKHAYLOV, V.G.; KRAFIYIN, M.G.

Drilling holes in rock salt using electric drills with mechanical feed. Sbor. nauch. trud. UkrNIISol* no.7:448-58 *64 (MIRA 18:1)

Investigations to determine the basic parameters of long-stroke drills for the drilling of rock salt. Tbid.:58-69

DUSTANSKIY, V.M., MINHATLOV, V.G.

Theory of the evalytical calculation of parameters in the breaking many of chips from a massif by planetery mining mashine astuntors. Trudy MPI 158:37-53 *64. (MIRA 18:11)

PUBYANCHIY, V.M., inzh.; MARHAYLOV, V.G., prof.; NASPIVIN, M.C., dotsent

Selecting efficient parameters for planetary actuating mechanisms on coal mining outter-loaders. Tzv. vys. uchek. zav.; gor. zhur. 8 no.7:124-130 '65. (MIRA 18:9)

1. Novocherkasskiy politekhnicheskiy institut. Rekomendovana kafedroy gornykh mashin.

"Shear in Glued and Other Joints of Woolen Structures." Thesis for degree of Gand.
Technical Sci. Sub 11 Oct 49, Central Sci Res Inst of Industrial Structures.

Summary 82, 13 Dec 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Moskva, Jan-Dec 1949.

124-58-6-7242

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 6, p 128 (USSR)

AUTHOR: Mikhaylov, V.G.

TITLE: On the Rupture-strength Properties of Wood and a Method for

Their Speedy Determination (O dlitel nom soprotivlenii dreve-

siny i metode yego uskorennogo opredeleniya)

PERIODICAL: V sb : Issledovaniya prochnosti i deformativnosti drevesiny.

Moscow, Gos. izd-vo lit po str-vu i arkhitekt., 1956, pp 107-

117

ABSTRACT: The author makes the assumption that the ratio between long-

term rupture strength and short-term ultimate strength for pine under conditions of transverse bending and compression in the direction of its grain does not exceed 0.5, and that, for spalling along a direction tangential to its grain, this ratio does not ex-

ceed 0.55.

B.N. Ugolev

1. Wood--Mechanical properties

Card 1/1

97-58-5-3/14

AUTHOR:

Bukshteyn, D.I., Engineer; Mikhaylov, V.G., Candidate of

Technical Sciences.

TITLE:

Economic Evaluation of Precast Reinforced Concrete Constructions - Details and Products. (Netod ekonomicheskoy otsenki sbornykh-

zhelezobetonnykh konstruktsiy, detaley i izdeliy)

PERIODICAL:

Beton i Zhelezobeton, 1958, No. 5, USSR, Pp 170-174.

ABSTRACT:

The method of cost of reinforced concrete constructions was worked out by V.A. Bushkov, Ya.A. Novikov, K.E. Tal', K.K. Antonov and E.I. Varenik. Formulae for the calculation of cost of precast reinforced concrete products are given and explained. The method of costing of various constructions is studied in the

Nauchno-Issledovatel'skiy Institut Ekonomiki Stroitel'stva (Scientific Research Institute of Construction Economics, ASIA USSR) by Candidate of Technical Science S.K. Lazarevich. Formulae for cost: of concrete mixes are given and explained. Table 1 gives transition coefficient from the geometric volume of the product to the volume of the concrete mix and Table 2 gives cost of concrete mix and consumption of cement. Formulae for the

pricing of steel reinforcement is also given as well as the cost of

Card 1/2

97-58-5-3/14

Economic Evaluation of Precast Reinforced Concrete Constructions - Details and Products.

bending of the reinforcement. Table 3 gives the weight coefficient of the steel; Table 5 the cost of prestressing the reinforcement and Table 6 the same but in roubles per kg. Table 7 gives cost of the steel and cost of production of basic details. Formulae for casting and steam curing of products is included. Table 8 gives cost of casting and curing works. Table 9 gives cost of prestressed reinforced ribbed roofing slabs PKZhN-1 for industrial buildings. Problems of the selection of optimal technological processes for production were investigated at Giprotis by Engineers S.V. Filimonov and P.M. Sushkov.

Card 2/2

1. Reinforced concrete--Effectiveness 2. Reinforced concrete--Economic aspects 3. Construction--Costs

PHARMAZEV. THE

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